

FLEXIBLE ADSORBENT FILTER

Abstract of the Disclosure

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The invention comprises a flexible adsorbent-loaded filter formed from a flexible support web and attached adsorbent particles. The adsorbent-loaded filter has open filter cells which are defined by the support web and the attached adsorbent particles and are random in size and orientation through the length and depth of the filter. The support web is formed of substantially nonlinear filaments that randomly intersect. The adsorbent particles largest average cross sectional dimension is smaller than the average diameter of the pores of the support web. When the flexible adsorbent loaded filter is flexed about a radius of curvature 20 mm, the percent increase in pressure drop is less than 100 percent when measured at a face velocity of 0.25 m/s.

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